[ET-CSWSIU2-BK]
Eagle | Consus W-Series
SATA / IDE to USB2.0 External Storage System

User Manual

www.eagle-techusa.com

Index

1 Getting Started

Package Contents ……..……. 02
System Requirements …….. 03
Updating Your Operating System ……... 03
Handling Precautions 03

2 Setting Up

External Storage Components ……..……. 04
IDE Hard Drive Installation ….…… 05
SATA Hard Drive Installation ….…….. 09

3 Connecting the External Hard Drive

Connecting the Cables ……. 14
Powering Up the Hard Drive ……..……. 15

4 Partition & Format the Hard Drive

Windows …….. 16
Mac OS v.10.2 + …… 19

5 Disconnecting the Hard Drive

Windows …….. 22
Mac …….. 23

6 Troubleshooting

FAQ – USB, Firewire & RAID Information ……. 24
FAQ – Installation ……..…….. 25

7 Appendix

Regulatory Compliance …… 30
Warranty Information …… 31
EAGLE | CONSUS Service and Support ……..…… 34
Understand EAGLE TECH Sub-Brand ……..…… 35

1 Getting Started

Thank you for purchasing EAGLE | CONSUS W-SERIES product. Eagle | Consus W-Series SATA / IDE to USB2.0 External Storage System. It will not only save you money, but also space and time. This user manual provides step-by-step installation instructions and other important information regarding your EAGLE | CONSUS product. For the latest EAGLE | CONSUS product information and news, visit our Web Site at *www.eagle-techusa.com*

Package Contents

- Eagle | Consus W-Series SATA / IDE to USB2.0 External Storage System
- USB 2.0 certified cable
- Installation CD
- AC power adapter
- User Manual

**USB 2.0 host required for Hi-Speed USB 2.0 performance. USB 2.0 is highly recommended because of the significant reduction in file transfer time compared to USB 1.1. To determine if your system supports USB 2.0, refer to your USB controller card documentation or contact your USB card manufacturer.*

System Requirements

Hardware

- Pentium® II, 200 MHz equivalent or newer for IBM compatible PC
- PowerPC G4, 350 MHz or newer for PowerPC-based Apple Computer
- Core® or newer for Intel-based Apple Computer
- Available High Speed USB 2.0 port
- SATA Hard Drive(s)

Software

Windows®

- Windows 2000 Pro / Server 2000 / Server 2003 / XP / Vista

Macintosh®

- Mac® OS X v.10.2+

Note: For highest performance and reliability, EAGLE | CONSUS recommends that you install the latest service pack (SP) and updates.

Updating Your Operating System

Windows

Go to the Start menu and select Windows updates. For more information regarding updating your system, visit *windowsupdate.microsoft.com*.

Macintosh

Go to the Apple menu and select Software Update. For more information regarding updating your system, visit *apple.com/macosx.*

Handling Precautions

EAGLE | CONSUS products are precision instruments and must be handled with care during unpacking and installation. Drives may be damaged by rough handling, shock, or vibration. Be aware of the following precautions when unpacking your Eagle | Consus external storage kit:

- Do not unpack the product until you are ready to install it.
- Do not drop or jolt the product.
- Do not move the external storage when it is powered up.

2 Setting Up

You will need a 3.5 inch SATA / IDE Hard Drive. Carefully follow the procedure to install the hard drive into the enclosure.

> ***Note:*** For pre-installed Hard Drive EAGLE | CONSUS enclosure, please skip this chapter and proceed to ***Chapter 3:*** **Connecting the Drive.**

EAGLE | CONSUS W-SERIES Front and Rear View

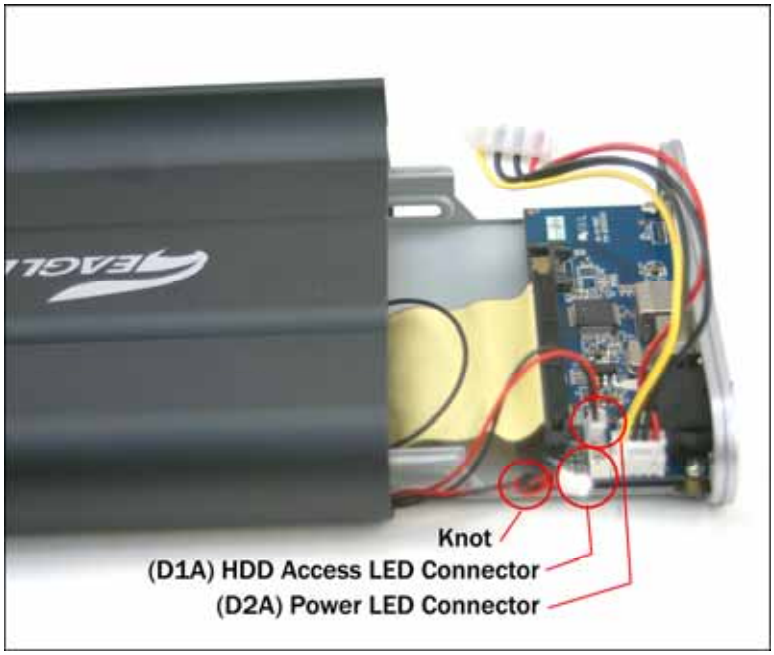
- **Power Switch –** Turns the W-SERIES on / off
- **Hard Drive access light –** Indicates hard drive activity
- **Power light –** Indicates device is on
- **USB 2.0 port –** Connects to a computer USB port or USB hub
- **Power Input –** Connects to the AC/DC power adapter

IDE Hard Drive Installation

NOTE: For SATA hard drive installation, go to page 9

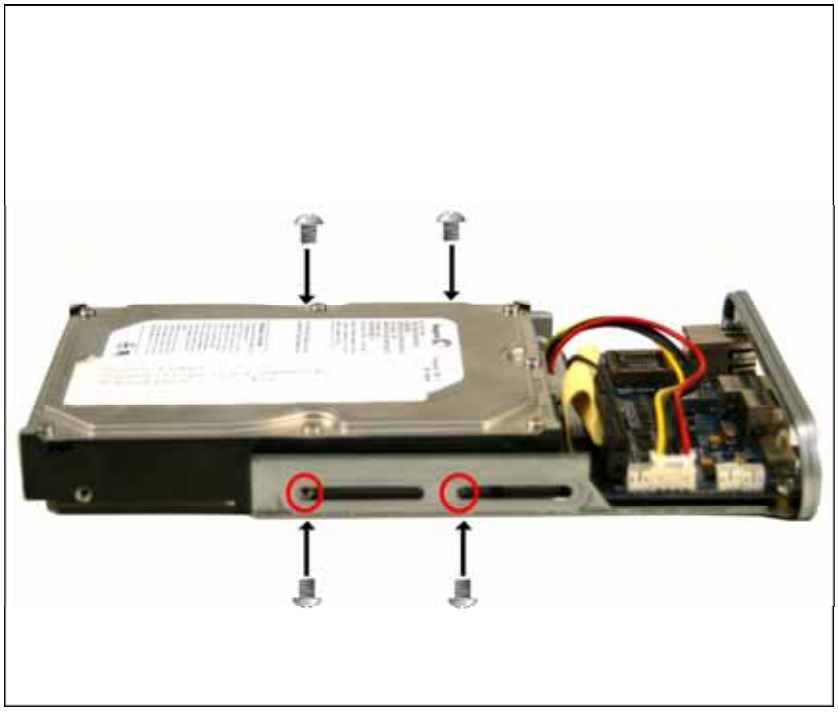
1. Remove 2 screws from the rear.

2. Unplug (D1A, Red-Black Cable) HDD Access LED Connector and unplug (D2A, Blue-Black Cable) Power LED Connector from controller board.



3. Pull out the Disk Mounting Tray and connect Power and IDE cable to the hard drive.

4. Tighten up Hard Drives with 4 screws.



5. Plug in the (Red-Black Cable) “HDD Access LED” connector to D1A and (Blue-Black Cable) “Power LED” Connector to D2A on the controller board.

6. Slide the Disk Mounting Tray into the Enclosure

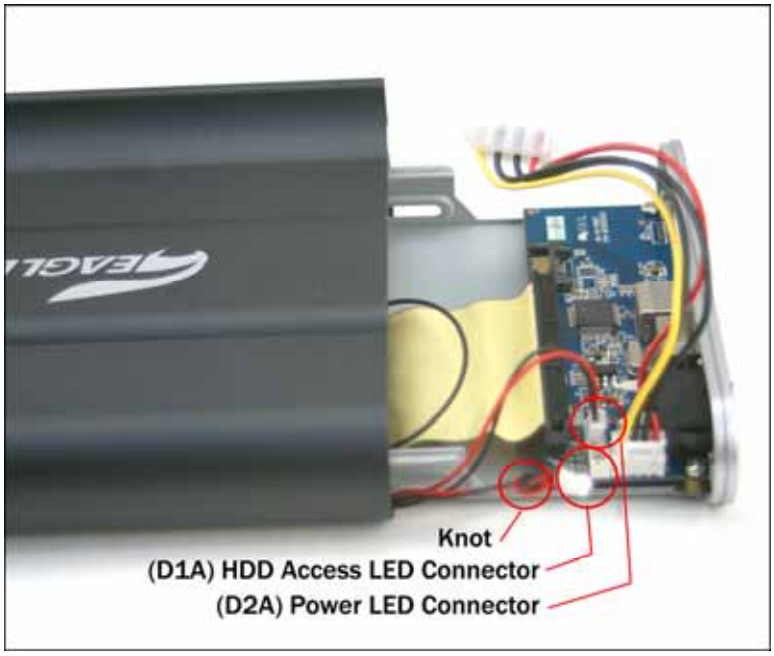
7. Put the bezel and tighten up with 2 screws at the rear.

8. External Hard Drive Installation Process Completed!

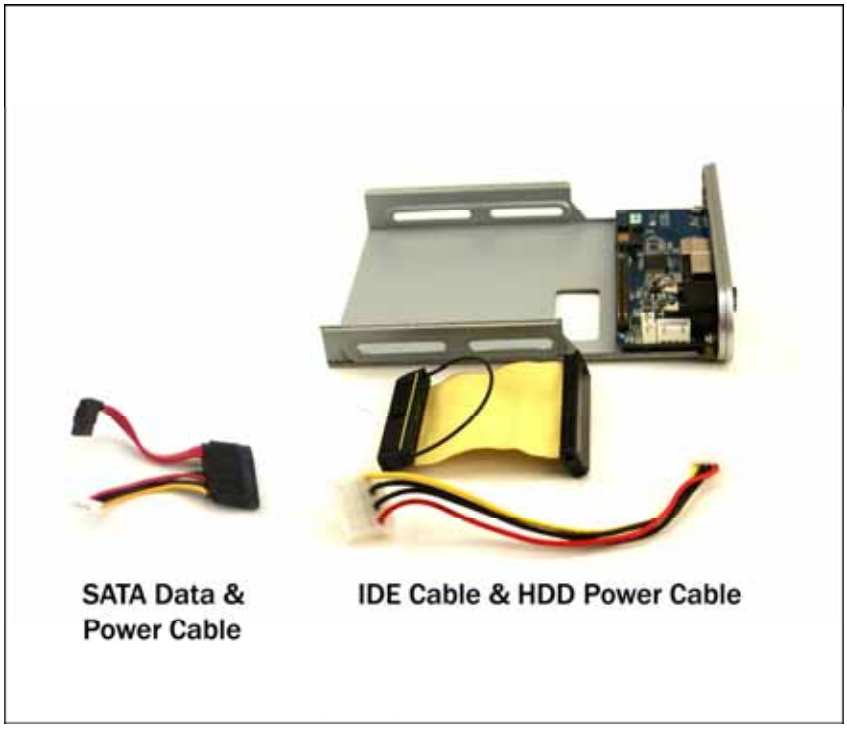
SATA Hard Drive Installation

1. Remove 2 screws from the rear.

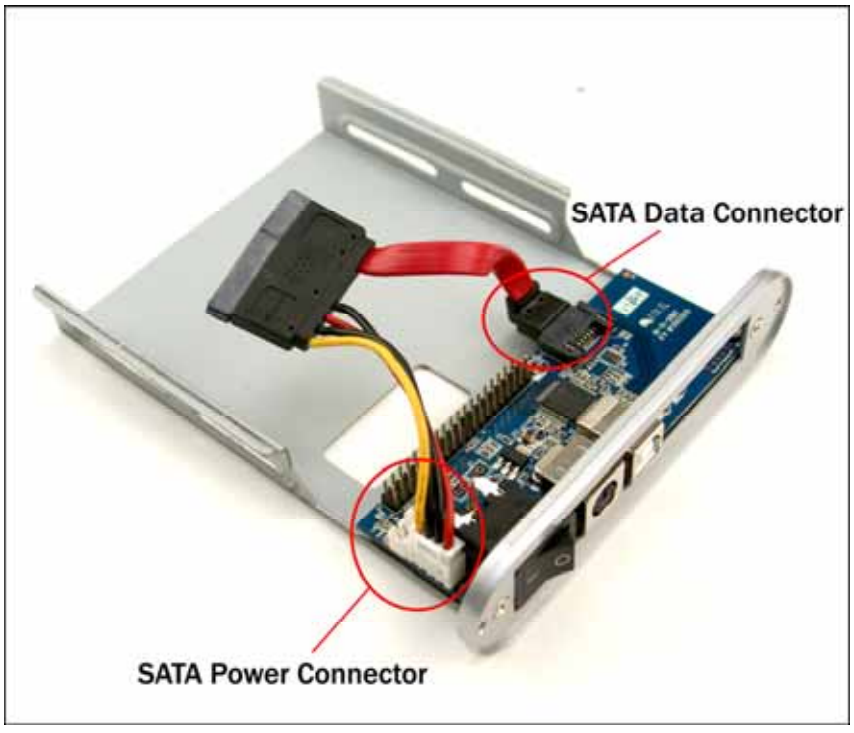
2. Unplug (D1A, Red-Black Cable) HDD Access LED Connector and unplug (D2A, Blue-Black Cable) Power LED Connector from Disk Mounting Tray.



3. Pull out the hard drive tray from the case and unplug the IDE cable and HDD power cable.

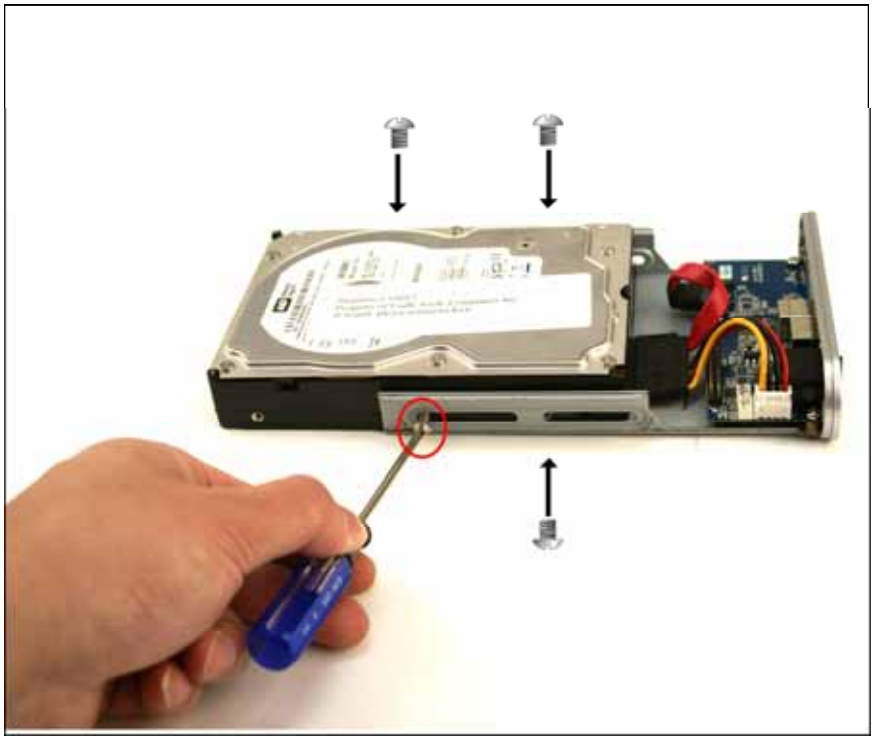


4. Connect the SATA data & power cable to the controller board.



5. Connect the SATA connector to the SATA Hard Drive.

6. Tighten up hard drive with 4 screws.



7. Plug in the (Red-Black Cable) “HDD Access LED” connector to D1A and (Blue-Black Cable) “Power LED” Connector to D2A on the controller board.

9. Slide the Disk Mounting Tray into the enclosure

10. Put the bezel and tighten up with 2 screws at the rear.

11. External Hard Drive Installation Process Completed!

3 Connecting the External Hard Drive

Attention:

- *Make sure power switch is OFF when attempt to connect DC power supply socket to the external hard drive.*

- *Connect the USB cable from the desktop / laptop to the external hard drive properly before turn on the power switch.*

Connecting the Cables

1. Connect the AC adapter cord to the DC power supply socket at the rear of the external hard drive.
2. Connect one end of the power cord to the AC adapter.
3. Connect the other end of the power cord to an electric outlet.
4. Connect one end of the USB 2.0 cable to the USB 2.0 port at the rear of the external hard drive.
5. Connect the other end of the USB 2.0 cable to an available USB port on your computer.

Powering Up the Drive

Press the power switch to turn on the unit. Wait 3 seconds after blue light illuminates.

Windows 2000/XP/2003/Vista

Your operating system will automatically detect the external drive after a "Found New Hardware" message pop up.

Windows 98SE/ME

> ***Note:*** *Eagle | Consus does not provide any tech supports for Windows98 platform since Microsoft has discontinued Windows 98SE.*

1. Connect Eagle | Consus External Storage to your Computer. Turn on the power.
2. Windows 98SE will detect a new device and activate Hardware Wizard, then Click **Next**.
3. Select Search for the Best Driver for your Device. Click "**Next**" to continue
4. Insert the CD Driver in your CD ROM, then Browse the CD Driver Contain and chose Win Folder. Click **Next**.
5. After installation Click **Finish** to restart your computer.
6. Once installation completes, you'll find USB Safe Remove icon in icon tray. If the new hard drive doesn't appear in **My Computer**, it means the USB hard drive is a brand new hard disk, which does not contain any partition, please format your Hard disk before using this device.

Mac OS X

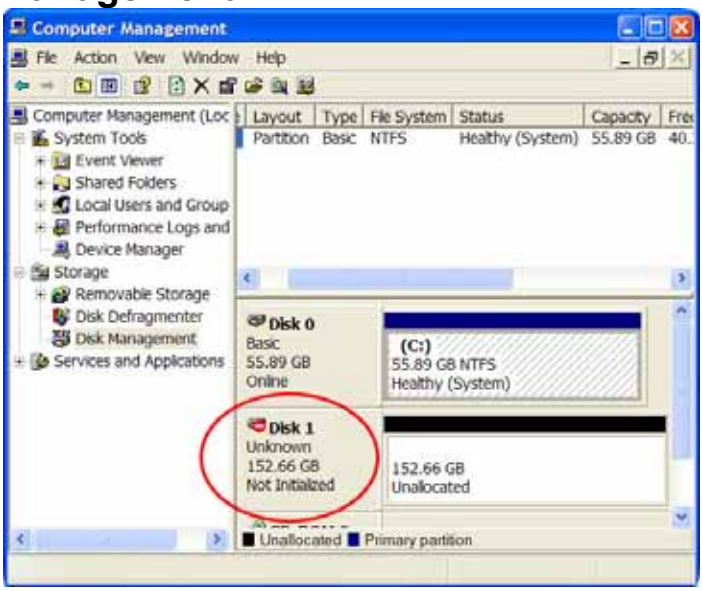
Your operating system will automatically detect the external drive. Once formatted the Hard Drive, the Hard Drive icon will appear on the desktop.

4 Partition & Format the Hard Drive

Windows XP/2000/2003

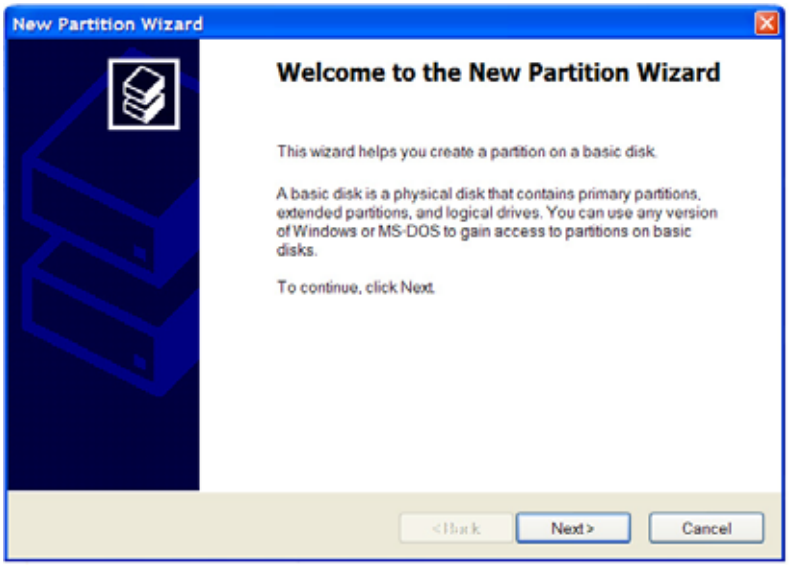
Note: *For formatted Hard Drive, proceed to step 2.*

1. Click the **Start** button and click on **Control Panel**, double-click the **Administrative Tools**, and then double-click the **Computer Management**.

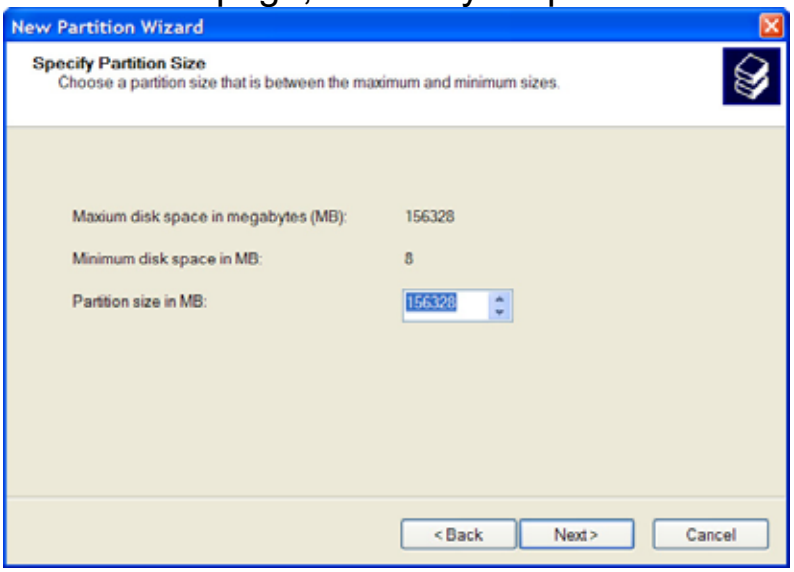


2. Click the **Disk Management** under **Storage**. Your new Hard Drive should have the right capacity shown. (E.g. figure above **Disk 1** is showing approximately 160GB). Right click the **Disk 1**, and choose Initialize Disk. ***Note:*** *If your* **Disk 1** *is shown as* **Basic** *and* **Online***, skip this step.*

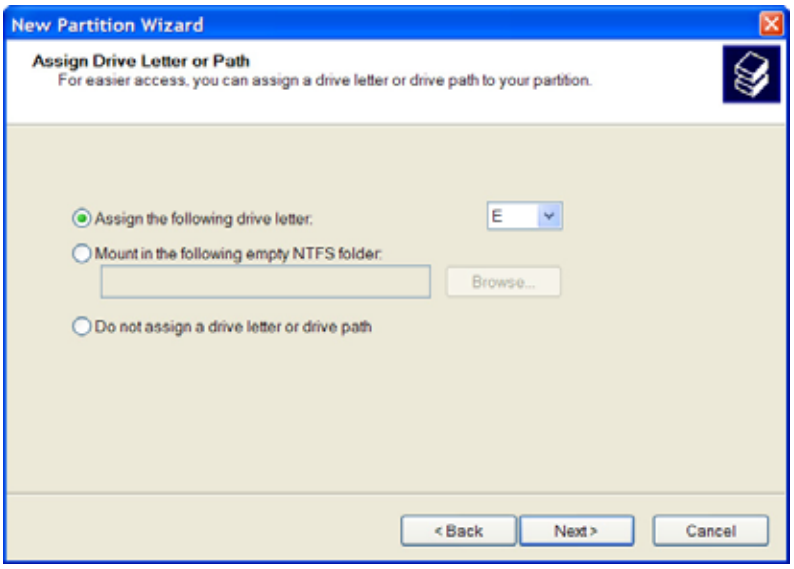
3. After **New Partition Wizard** launched, then click **Next.**


New Partition Wizard
Welcome to the New Partition Wizard
This wizard helps you create a partition on a basic disk.
A basic disk is a physical disk that contains primary partitions, extended partitions, and logical drives. You can use any version of Windows or MS-DOS to gain access to partitions on basic disks.
To continue, click Next.
< Back
Next >
Cancel

4. On the next page, choose your partition size then click **Next.**

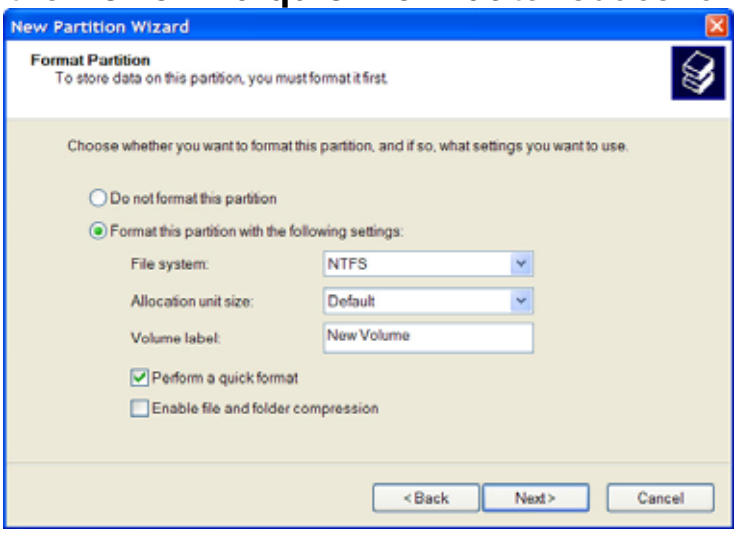

New Partition Wizard
Specify Partition Size
Choose a partition size that is between the maximum and minimum sizes.
Maxium disk space in megabytes (MB): 156328
Minimum disk space in MB: 8
Partition size in MB: 156328
< Back
Next >
Cancel

5. After that, please assign a drive letter for the new Hard Drive, and go to **Next**.


New Partition Wizard
Assign Drive Letter or Path
For easier access, you can assign a drive letter or drive path to your partition.
Assign the following drive letter: E
Mount in the following empty NTFS folder:
Browse...
Do not assign a drive letter or drive path
< Back
Next >
Cancel

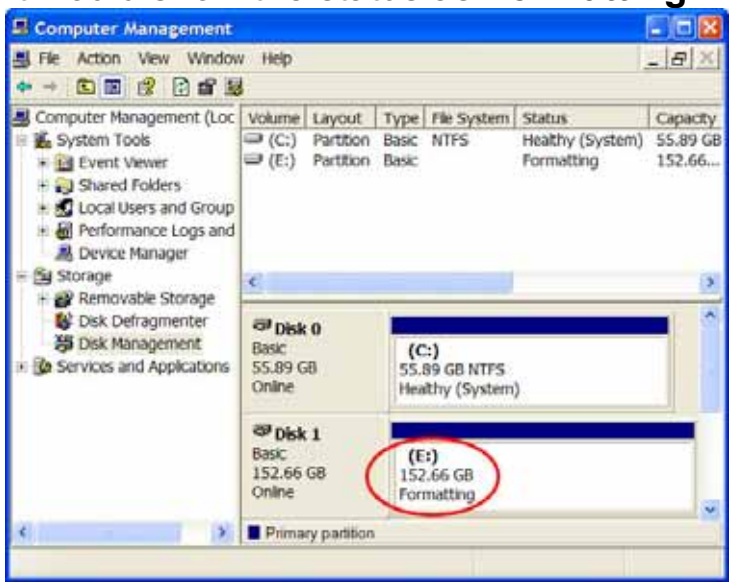
6. To format a Hard Drive. Choose the **NTFS** as **File System**. Leave the

Allocation unit size as default. Assign a name in **Volume label**. Check the **Perform a quick format** to reduce format time. Click **Next**.

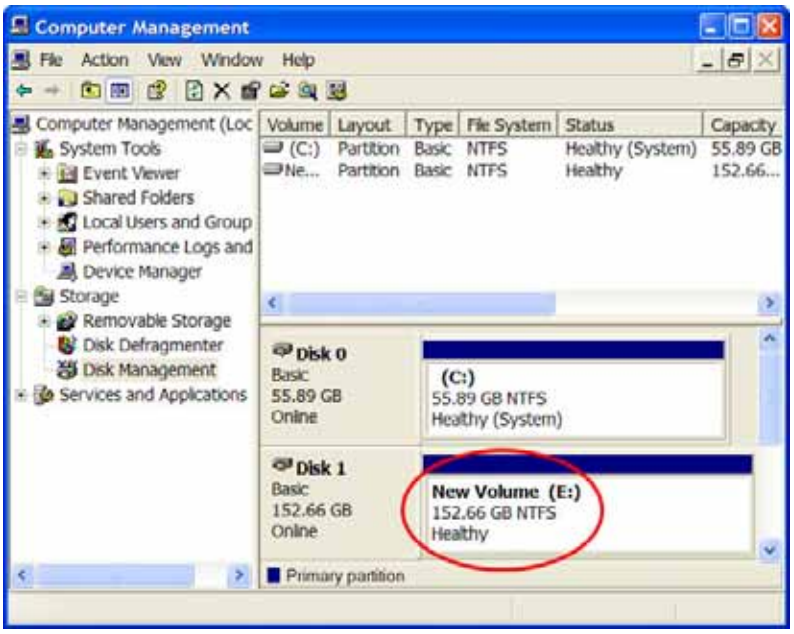

New Partition Wizard
Format Partition
To store data on this partition, you must format it first.
Choose whether you want to format this partition, and if so, what settings you want to use.
Do not format this partition
Format this partition with the following settings:
File system:
NTFS
Allocation unit size:
Default
Volume label:
New Volume
Perform a quick format
Enable file and folder compression
< Back
Next >
Cancel

7. Confirm your setting and click **Finish**.

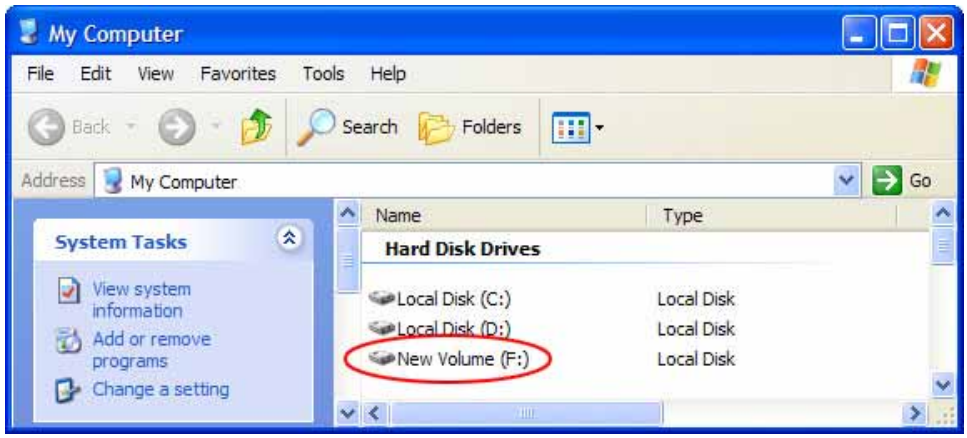
8. It would show the status as **Formatting**.



9. When the status change to **Healthy**, your new Hard Drive is ready to use.



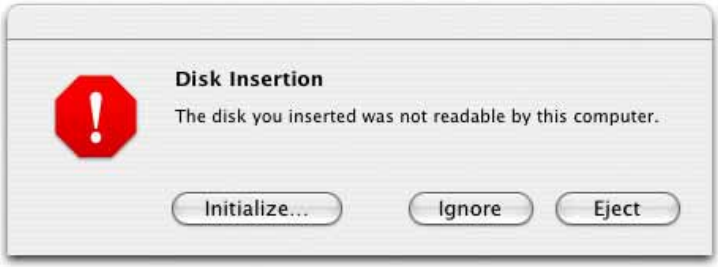
10. Go to My Computer, your new drive should be listed there and ready to use.



Mac OS X

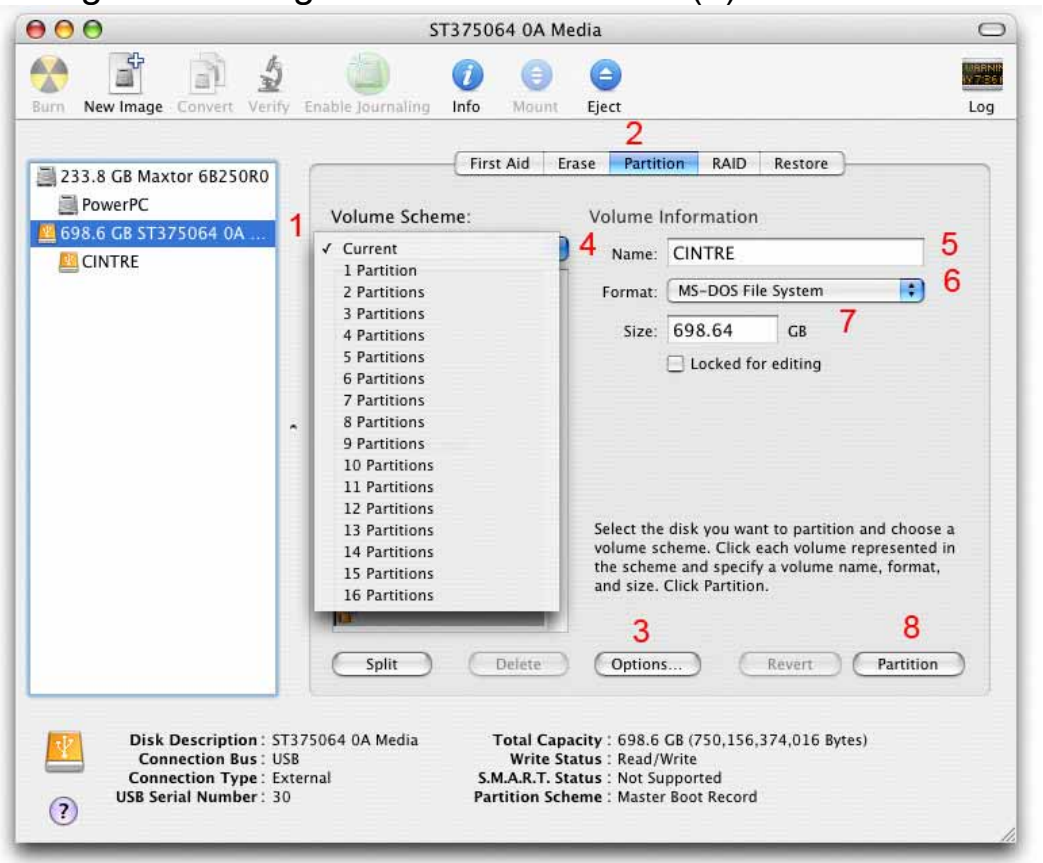
Note: *If the* ***warning*** *does not show up, start at step 2.*

1. A warning window will pop up for new and unformatted hard drive. Click **Initialize**. Skip Step 2 and continue at Step 3.



2. Click **Go** on the desk bar and choose **Utilities**, click **Disk Utility**.

3. Under the **Disk Utilities**, choose the new hard drive (1) and click **Partition** (2). Click **Options** to choose format other than **Mac Extended** (3) refer to **Figure 1** at page 16. Choose the number of partition you want by clicking on the scroll bar (4). Name the new hard drive (5). Choose the **Format** (6) refer to **Figure 2** at page 16. Define the Size if you want more than one partition or else, leave it as default (7). Make sure the configuration is right and click **Partition** (8).



Choose a partition scheme appropriate for the way you will use this disk:
GUID Partition Table
To use the disk to start up an Intel-based Macintosh computer
Apple Partition Map
To use the disk to start up a PowerPC-based Macintosh computer or to use the disk as a non-startup disk with any Mac
Master Boot Record
To use the disk to start up DOS and Windows computers, or to use with devices that require a DOS-compatible or Windows-compatible partition
Default
Cancel
OK

Figure 1: 3 Options… Choose the partition for you hard drive. Click **OK**.

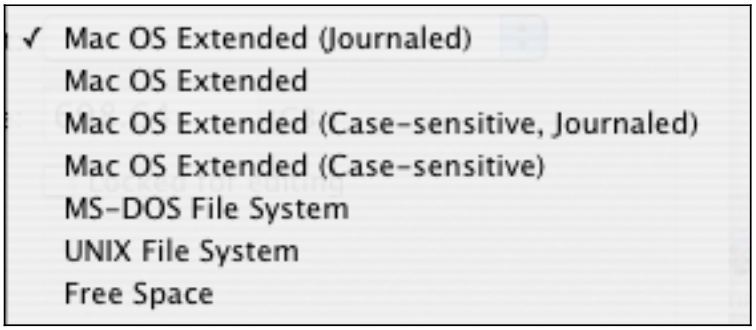


Figure 2: 6 Format: Choose the format for your hard drive.

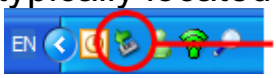
4. After the partitioning is done, an icon with the **Name** you assigned should appear on your Desktop. Just double click the icon to access the hard drive.

5 Disconnecting the Hard Drive

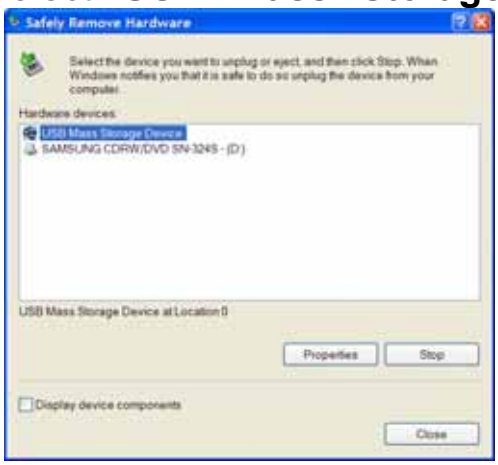
> ***CAUTION:*** *To prevent data loss, be sure to close all active applications before shutting down the drive.*

Windows XP/2000/2003/Vista

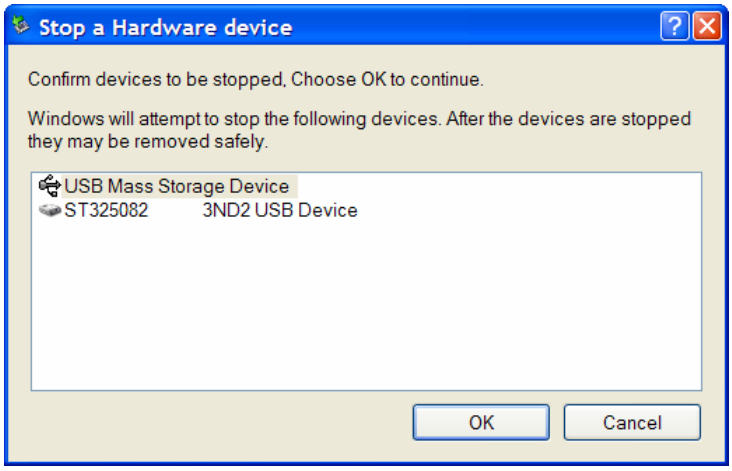
1. Double-click the **Safely Remove Hardware** icon in your system tray (typically located on the bottom right corner of your desktop).



2. Select **USB Mass Storage Device** from the list and click **Stop**.


Safely Remove Hardware
Select the device you want to unplug or eject, and then click Stop. When Windows notifies you that it is safe to do so unplug the device from your computer.
Hardware devices:
USB Mass Storage Device
SAMSUNG CDRW/DVD SN-324S - (D:)
USB Mass Storage Device at Location 0
Properties
Stop
Display device components
Close

3. The following window is displayed. Select the drive to be disconnected and click **OK**.


Stop a Hardware device
Confirm devices to be stopped, Choose OK to continue.
Windows will attempt to stop the following devices. After the devices are stopped they may be removed safely.
USB Mass Storage Device
ST325082 3ND2 USB Device
OK
Cancel

> **Important:** If other USB devices (such as a portable flash drive) are connected to your computer, there may be multiple for USB Mass Storage Device. Be sure to select the Eagle | Consus device!

4. Click **Close** and turn the Power switch to OFF the devices.
5. Now you can safely disconnect the USB cable from your computer and the power cord from the electric outlet.

Windows 98SE

1. Close all the application on Windows.
2. Be sure the drive isn't running, press Power switch to shutdown the devices.
3. Disconnect the USB cable from your computer.

Mac

1. Find the Removable Disk icon associated with drive you to disconnect, and drag it to the Trash icon on your desktop (it would turn to Eject icon).

2. After the disk icon disappears from the desktop, press the Power button to turn off your drive. Now you can safely disconnect the USB or FireWire cable from your computer and the power cord from the electric outlet.

6 Troubleshooting

To search the EAGLE | CONSUS technical support knowledge base and to view a complete list of FAQs for your operating system, visit our support Web site at *www.eagle-techusa.com*.

Frequently Asked Questions – USB, FireWire, JBOD, and RAID Information

Q: What is High-Speed USB?

A: Hi-Speed USB is another name for USB 2.0, which provides transfer rates up to 40 times faster than USB 1.1. Upgrading to USB 2.0 is highly recommended because of the significant reduction in file transfer time versus USB 1.1.

Q: How do I determine whether or not my system supports USB 2.0?

A: Refer to your USB card documentation or contact your USB card manufacturer.

Note: *If your USB 2.0 controller is built in the motherboard, be sure to install the appropriate chipset support for your motherboard. Refer to your motherboard or system manual for more information.*

Q: What happens when a USB 2.0 device is plugged into a USB 1.1 port or hub?

A: USB 2.0 is backward-compatible with USB 1.1. When connected to a USB 1.1 port or hub, a USB 2.0 device operates at the USB 1.1 full speed of up to 12Mbps.

Q: Can USB 1.1 cables be used with USB 2.0 devices?

A: Although USB 1.1 cables work with USB 2.0 devices, it is recommended that USB 2.0 certified cables be used with USB 2.0 peripherals and USB 2.0 PCI adapter cards.

Q: What is FireWire400?

A: FireWire400 is also called as 1394A. “FireWire” is registered by Apple Computer Inc. FireWire800 is also known as 1394B. It has the double transfer rate of FireWire400.

Note: *FireWire800 is NOT backward-compatible with FireWire400, be sure you get the right one.*

Q: What is JBOD, RAID?

A: Redundant Array of Independent Disks (RAID); a collection of storage disks with a controller (or controllers) to manage the storage of data on the disks. Just a Bunch of Disks (JBOD) is a disk array that without a controller, it can combines different sizes of Hard Drive together.

Q: Why need USB and FireWire?

A: USB is for PC user while FireWire is for Mac user. Most of the PC supports USB and most of the Mac supports FireWire.

Frequently Asked Questions – Installation

Q: Why does the drive not power up?

A: After connecting the power cord, be sure to switch the Power switch to ON. The USB cable has to be connected to the computer and the computer is turned ON.

Q: Why is the drive not recognized under My Computer or on the computer desktop?
First of all, make sure the external hard drive is turn ON.

A: This is a common issue for a new unformatted hard drive. The same problem might occur if the hard drive is not formatted to the recognizable format of the operating system. Reformatting the hard drive will normally fix this issue. See “Formatting the Drive”

A: If your system has USB 2.0 or FireWire PCI adapter card, be sure that the appropriate drivers are installed before connecting your EAGLE | CONSUS external storage product. The drive is not recognized correctly unless USB 2.0 or FireWire root hub and host controller drivers are installed. Contact the controller card manufacturer or motherboard manufacturer.

Q: Why is the data transfer rate slow?

A: Your system may be operating at USB 1.1 speeds due to an incorrect driver installation of the USB 2.0 adapter card or the system that does not support USB 2.0. Be sure to download the latest Service Pack.

If your system includes a PCI slot, you can achieve Hi-Speed USB transfer rates by installing a USB 2.0 PCI adapter card. Contact the card manufacturer for installation procedures and more information.

Q: Why Windows will not allow me to safely remove my drive? It keeps

reporting the drive is busy or in use.

A: This is usually caused by a program that is trying to read from the drive. Be sure to close all application before removing the drive.

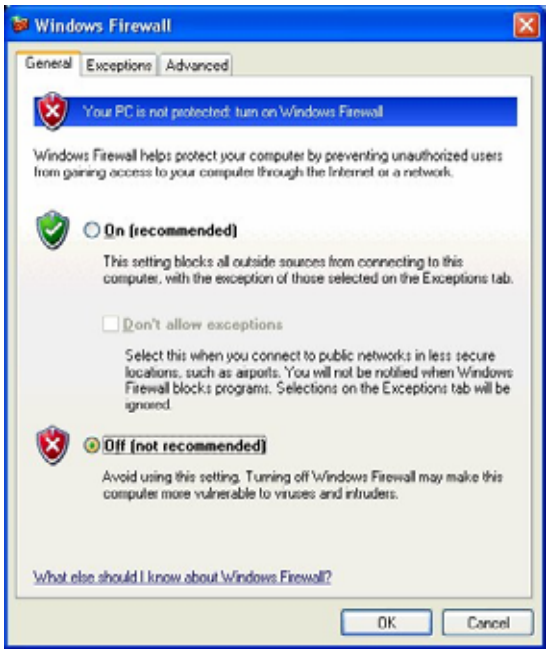
Q: Why there is delayed write failure on my Windows XP?

A: Delayed write failure errors have many causes, most of which are specific to individual computers. However, one of the most common causes is that some of the communication going between the computer and the external drive is blocked by a firewall.

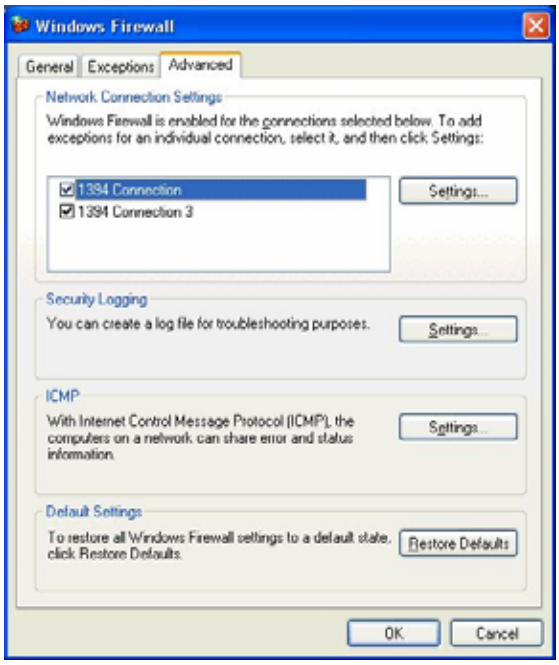
Windows XP SP2 has an added feature called a firewall which helps protect your system from being accessed from the outside. This firewall feature is enabled by default when you install Service Pack 2 and it can block transfers from/to the external drive. This normally happens on the 1394 port, but has also been seen on the USB port.

As a troubleshooting step, **TEMPORARILY** disable the firewall and transfer data to and from the drive. This will confirm if the firewall is the cause of the delayed write error you are seeing.

To disable the Firewall in Windows XP SP2:
Go to **Start** > **Control Panel** > Double-click the **Windows Firewall** > Select the **Off** option and Click **OK**.


Windows Firewall
General
Exceptions
Advanced
Your PC is not protected: turn on Windows Firewall
Windows Firewall helps protect your computer by preventing unauthorized users from gaining access to your computer through the Internet or a network.
On (recommended)
This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions tab.
Don't allow exceptions
Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Windows Firewall blocks programs. Selections on the Exceptions tab will be ignored.
Off (not recommended)
Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.
What else should I know about Windows Firewall?
OK
Cancel

If this fixes the issue, then go to **Advanced** tab and uncheck the 1394 connection and/or USB connections to disable firewall on those connections. Be sure it is the connection for your external hard drive.


Windows Firewall
General
Exceptions
Advanced
Network Connection Settings
Windows Firewall is enabled for the connections selected below. To add exceptions for an individual connection, select it, and then click Settings:
1394 Connection
1394 Connection 3
Settings...
Security Logging
You can create a log file for troubleshooting purposes.
Settings...
ICMP
With Internet Control Message Protocol (ICMP), the computers on a network can share error and status information.
Settings...
Default Settings
To restore all Windows Firewall settings to a default state, click Restore Defaults.
Restore Defaults
OK
Cancel

If there is a pop-up when trying to transfer data, then click on allow option for requests from the USB or 1394 port. That will open the USB / 1394 ports. Be sure to pay close attention to what you are allowing through your firewall, you may not want to allow some programs access to your computer or the internet.

Important: Be sure to enable the firewall after troubleshooting is complete.

Q: Why my Hard Drive isn't showing the same space as it listed according to hard drive manufacturer?

A: This is very common question by everybody. The answer is because there are two different definition of capacity of hard drive between hard drive manufacturer and Operating System company.

For example, hard drive manufacturer define 1GB = 1000MB but operating system company define 1GB=1024MB. Therefore, if you have a 250GB hard drive, but it shows only about 237GB on Windows XP.

It is an interesting coincidence that every tenth power of two is approximately equal to every third power of ten. This has resulted in two different definitions of these numbering systems. The terms Kilobyte, Megabyte, Gigabyte, etcetera can mean either of two different things depending on the context in which it is used. Obviously this can, and often does, result in confusion, especially in respect to hard disk size measurements, where *both* measurements are often used.

Name	Abbr.	Binary Power	Binary Value	Decimal Power	Decimal Value
Kilobyte	KB	2^{10}	1,024	10^{3}	1,000
Megabyte	MB	2^{20}	1,048,576	10^{6}	1,000,000
Gigabyte	GB	2^{30}	1,073,741,824	10^{9}	1,000,000,000
TeraByte	TB	2^{40}	1,099,511,627,776	10^{12}	1,000,000,000,000

This is the industry standard, and all major disk drive manufacturers employ this definition.

Capacity Calculations

Different applications like FDISK, CHKDSK, Windows, BIOS, etc., use different methods and numbering systems to calculate hard drive capacities. The two most common numeric representations of the hard drive capacity are presented in the base 10 (decimal) and base 2 (binary) numbering systems. The basic formula to calculate the capacity of a drive is:

Cylinders * Heads * Sectors * 512 (bytes per sector)

This formula calculates a number representing the total number of bytes (characters) that can be stored on the hard drive. This is a decimal number, to convert this number to the decimal equivalent of the binary Megabytes (MB) or Gigabytes (GB), this value must be divided by the decimal value of a binary MB or GB. The decimal equivalent of 1 MB (2^{20}) is 1,048,576 and 1 GB (2^{30}) is 1,073,741,824. Example for a 3.5 GB hard drive:

6,800 * 16 * 63 * 512 = 3,509,452,800 bytes or 3.5 GB using 10^6 or decimal values

The equivalent in binary MB is 3,509,452,800 / 1,048,576 = 3,346 MB

The equivalent in binary GB is 3,509,452,800 / 1,073,741,824 = 3.268 GB

160GB shows roughly ~150GB
200GB shows roughly ~186GB
250GB shows roughly ~237GB

Note: Disk size may differ for different products. The above space shown is for reference purpose only. Please check with hard drive manufacturer for more details on drive space.

Q: My Hard Drive is showing 2 drives which are 191GB one is 45GB respectively but I ordered a single 250GB hard drive

A: This is common because the hard drive is formatted to FAT32 files system which only supports the maximum capacity of 200GB per partition. Therefore a 250GB hard drive formatted to FAT32 can only be done by formatting to 200GB and 50GB respectively.

Q: My Hard Drive is showing only 137GB but I ordered a larger hard drive

This is very common if you did not update your Windows 2000/XP to the latest service pack. For Windows 98SE/ME there is a driver for supporting large hard drives for the designated brand of hard drive used, like Maxtor, Seagate, Western Digital. If this does not help, the only easy way is to format your hard drive in Windows 2000/XP in FAT32 but in at least 2 evenly divided partitions for full detection.

7 Appendix

Regulatory Compliance

FCC Class B Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates ‘uses’ and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/television technician for help.

Notice 1:
The changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the Equipment.

Notice 2:
Shielded interface cables, if any, must be used in order to comply with the emission limit.

CE Compliance for Europe

This equipment has been tested and found to comply with the limits for European Council Directive on the approximation of the law of the member states relating to electromagnetic compatibility (89/336/EEC) according to EN55022 Class B.

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